

=> s raloxifene/cn

L1 1 RALOXIFENE/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 84449-90-1 REGISTRY

ED Entered STN: 16 Nov 1984

CN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]- (CA INDEX NAME)

OTHER NAMES:

CN Keoxifene

CN LY 139481

CN Raloxifene

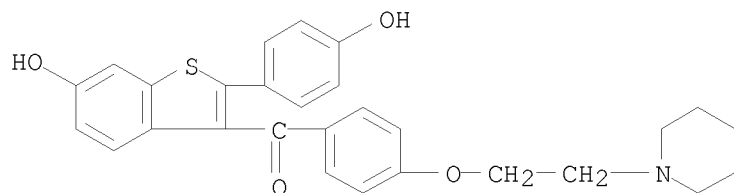
CN [2-(4-Hydroxyphenyl)-6-hydroxybenzo[b]thien-3-yl][4-(2-(1-piperidinyl)ethoxy)phenyl]methanone

MF C28 H27 N O4 S

CI COM

LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CBNB, CHEMCATS, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB\*, IMSDRUGNEWS, IMSPATENTS, IMSPRODUCT, IMSRESEARCH, IPA, MEDLINE, MRCK\*, PATDPASPC, PHAR, PROMT, PROUSDDR, RTECS\*, SCISEARCH, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Other Sources: WHO



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2074 REFERENCES IN FILE CA (1907 TO DATE)

46 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

2082 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FILE REG

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.88

8.10

FILE 'REGISTRY' ENTERED AT 17:12:52 ON 05 JAN 2009

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 JAN 2009 HIGHEST RN 1092523-63-1

DICTIONARY FILE UPDATES: 4 JAN 2009 HIGHEST RN 1092523-63-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> STR 84449-90-1

:END

L2 STRUCTURE CREATED

=> S L2 FAM FUL

FULL SEARCH INITIATED 17:12:55 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 403 TO ITERATE

100.0% PROCESSED 403 ITERATIONS 49 ANSWERS  
SEARCH TIME: 00.00.01

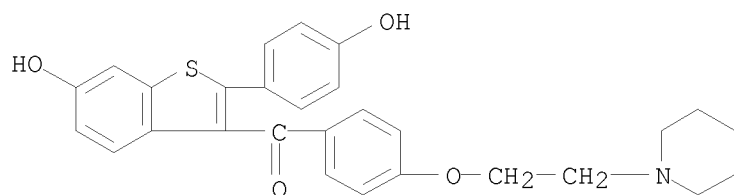
L3 49 SEA FAM FUL L2

=>

=> D SCAN

L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]-, hydrochloride, compd. with tetrahydrofuran  
(2:2:1)  
MF C28 H27 N O4 S . 1/2 C4 H8 O . Cl H

CM 1



● HCl

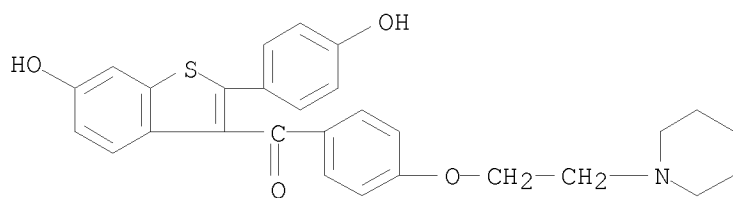
CM 2



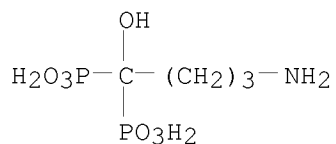
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):48

L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone (1:1), pentahydrate (9CI)  
 MF C28 H27 N O4 S . C4 H13 N O7 P2 . 5 H2 O

CM 1

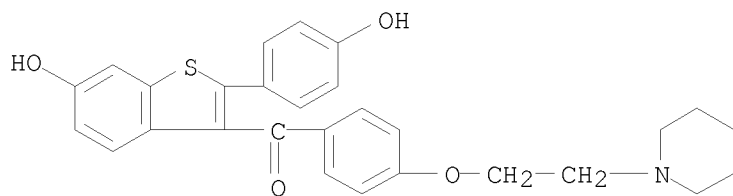


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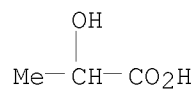


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanoic acid, 2-hydroxy-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone (1:1)  
 MF C28 H27 N O4 S . C3 H6 O3

CM 1

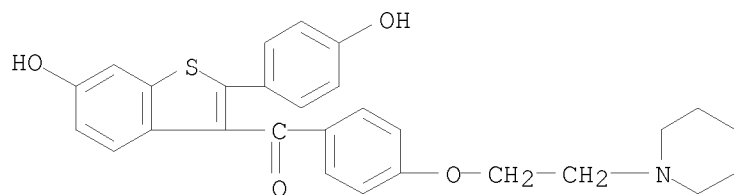


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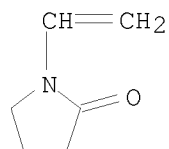
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone (1:1) (9CI)  
 MF C28 H27 N O4 S . (C6 H9 N O)x

CM 1

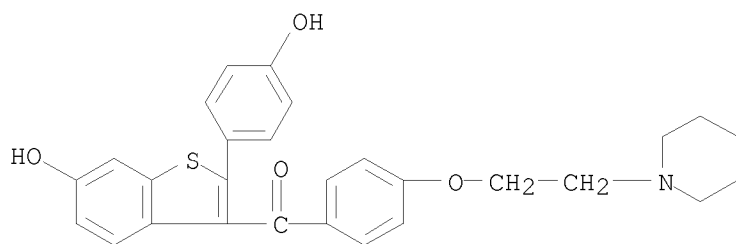


CM 2

CM 3



L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]-, hydrochloride, hydrate (1:1:1)  
 MF C28 H27 N O4 S . Cl H . H2 O

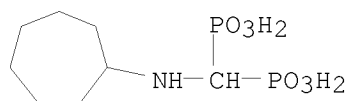


● HCl

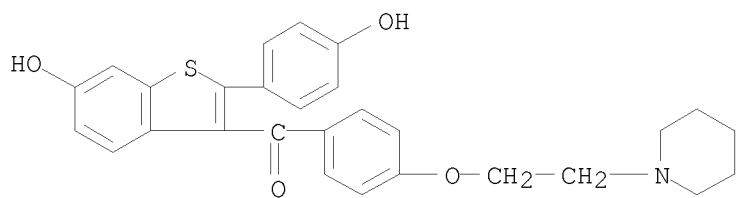
● H<sub>2</sub>O

L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Phosphonic acid, [(cycloheptylamino)methylene]bis-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone (1:1), monohydrate (9CI)  
 MF C28 H27 N O4 S . C8 H19 N O6 P2 . H2 O

CM 1

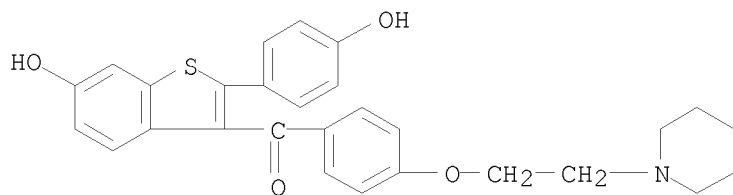


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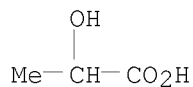


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanoic acid, 2-hydroxy-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone, hydrate (2:2:1)  
 MF C28 H27 N O4 S . C3 H6 O3 . 1/2 H2 O

CM 1

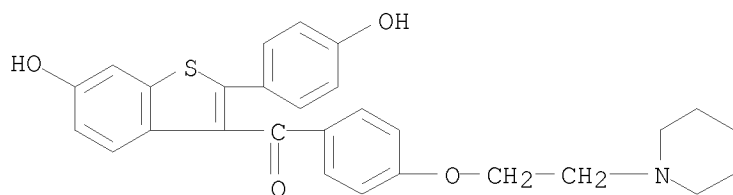


CM 2



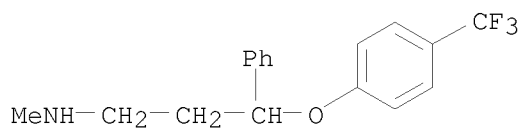
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]-, hydrochloride, mixt. with  
 N-methyl- $\gamma$ -[4-(trifluoromethyl)phenoxy]benzenepropanamine  
 hydrochloride (9CI)  
 MF C28 H27 N O4 S . C17 H18 F3 N O . 2 Cl H  
 CI MXS

CM 1



● HCl

CM 2



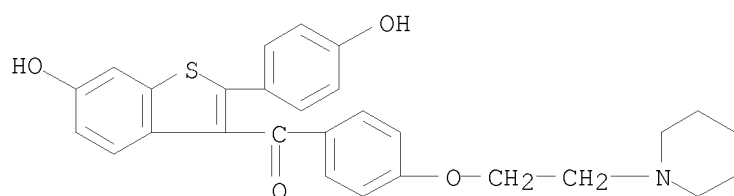
● HCl

L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Benzeneacetic acid,  $\alpha$ -methyl-4-(2-methylpropyl)-, mixt. with

2-amino-2-methyl-1-propanol compd. with  
 8-bromo-3,7-dihydro-1,3-dimethyl-1H-purine-2,6-dione (1:1) and  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone hydrochloride (9CI)

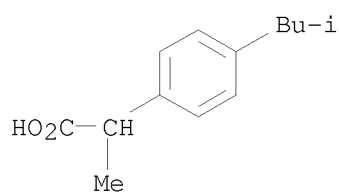
MF C28 H27 N O4 S . C13 H18 O2 . C7 H7 Br N4 O2 . C4 H11 N O . Cl H  
 CI MXS

CM 1



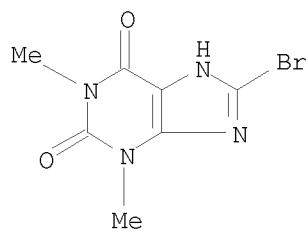
● HCl

CM 2

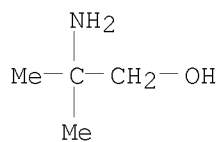


CM 3

CM 4

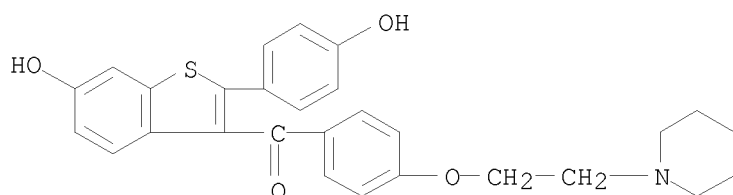


CM 5



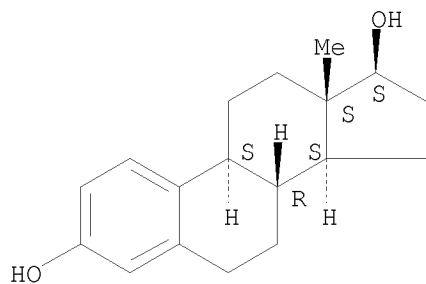
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Estradiol, 17 $\beta$ -, mixt. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone  
 MF C28 H27 N O4 S . C18 H24 O2  
 CI MXS

CM 1



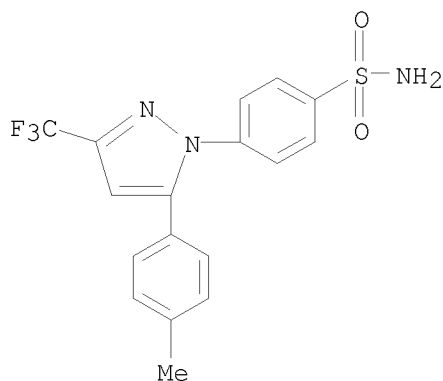
CM 2

Absolute stereochemistry.



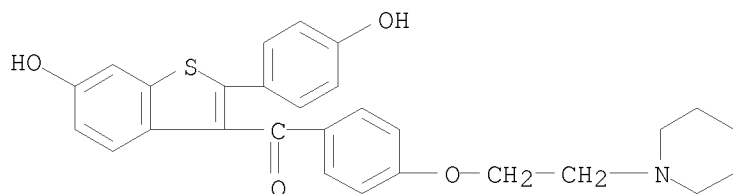
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Benzenesulfonamide, 4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-  
 yl]-, mixt. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone hydrochloride (9CI)  
 MF C28 H27 N O4 S . C17 H14 F3 N3 O2 S . C1 H  
 CI MXS

CM 1





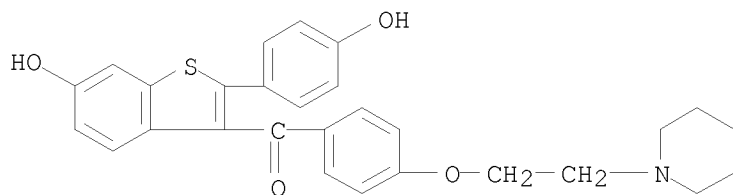
CM 2



● HCl

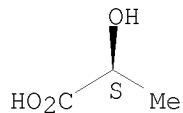
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Propanoic acid, 2-hydroxy-, (2S)-, compd. with  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone (1:1)  
MF C28 H27 N O4 S . C3 H6 O3

CM 1

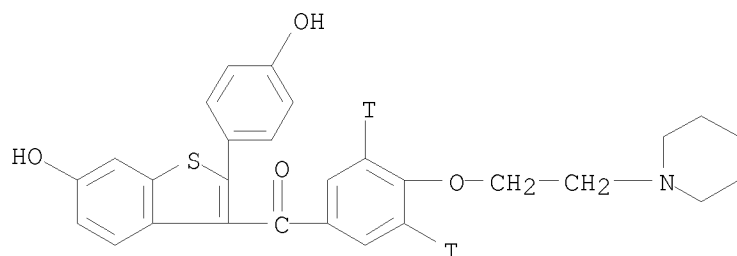


CM 2

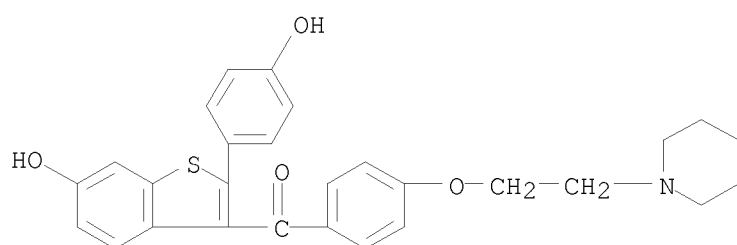
Absolute stereochemistry. Rotation (+).



L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl-3,5-t2]- (9CI)  
MF C28 H25 N O4 S T2



L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]-, hydrochloride, hydrate (1:1:?)  
 MF C28 H27 N O4 S . Cl H . x H2 O

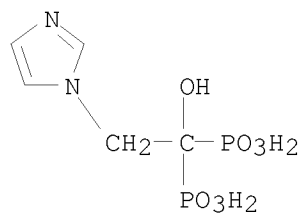


● HCl

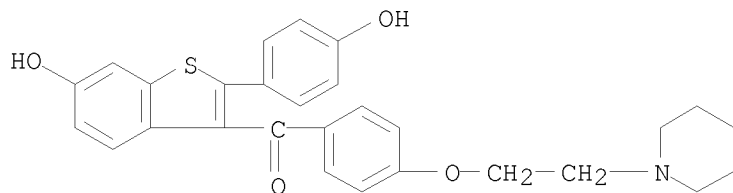
●x H<sub>2</sub>O

L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Phosphonic acid, [1-hydroxy-2-(1H-imidazol-1-yl)ethylidene]bis-, compd. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone (1:1), tetrahydrate (9CI)  
 MF C28 H27 N O4 S . C5 H10 N2 O7 P2 . 4 H2 O

CM 1

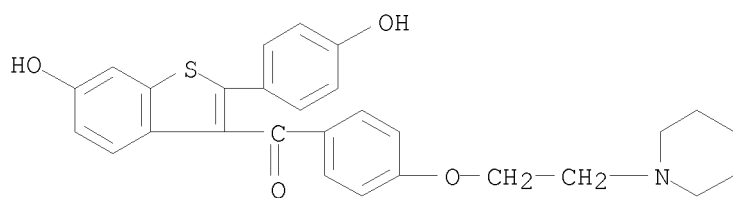


CM 2



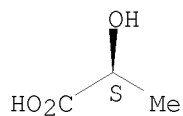
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanoic acid, 2-hydroxy-, (2S)-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1)  
 MF C28 H27 N O4 S . C3 H6 O3 . 1/4 H2 O

CM 1



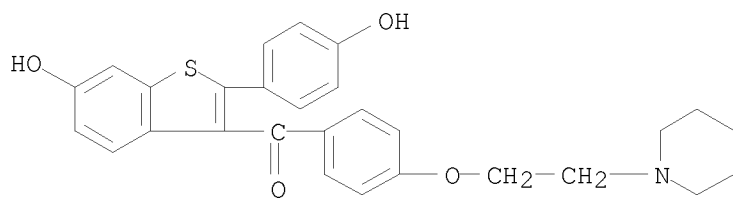
CM 2

Absolute stereochemistry. Rotation (+).

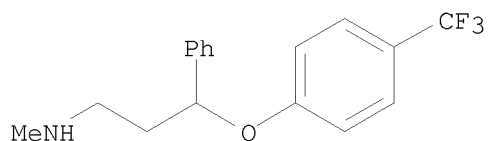


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]-, mixt. with  
 N-methyl-γ-[4-(trifluoromethyl)phenoxy]benzenepropanamine (9CI)  
 MF C28 H27 N O4 S . C17 H18 F3 N O  
 CI MXS

CM 1



CM 2



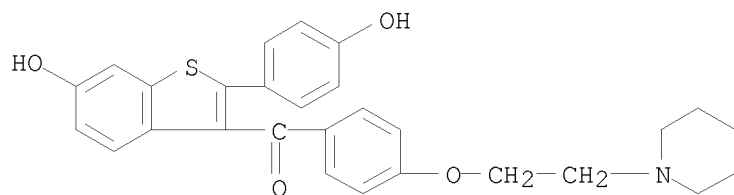
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN Benzeneacetic acid,  $\alpha$ -methyl-4-(2-methylpropyl)-, mixt. with  
2-amino-2-methyl-1-propanol compd. with  
8-bromo-3,7-dihydro-1,3-dimethyl-1H-purine-2,6-dione (1:1),  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone hydrochloride and  
N-[(4-methoxyphenyl)methyl]-N',N'-dimethyl-N-2-pyridinyl-1,2-ethanediamine  
(2Z)-2-butenedioate (1:1) (9CI)

MF C28 H27 N O4 S . C17 H23 N3 O . C13 H18 O2 . C7 H7 Br N4 O2 . C4 H11 N O .  
C4 H4 O4 . C1 H

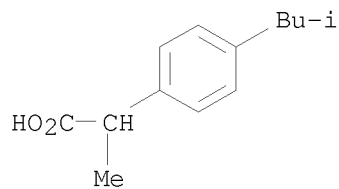
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CM 1



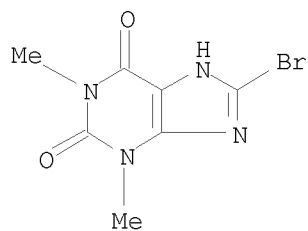
● HCl

CM 2

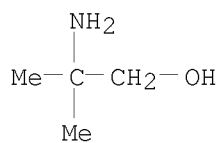


CM 3

CM 4



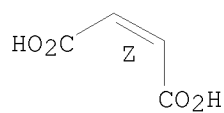
CM 5



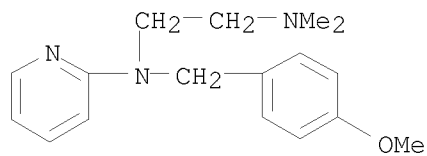
CM 6

CM 7

Double bond geometry as shown.

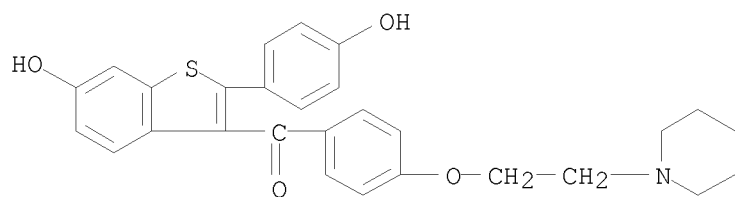


CM 8

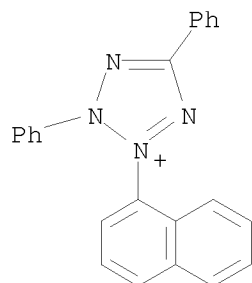


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 2H-Tetrazolium, 3-(1-naphthalenyl)-2,5-diphenyl-, chloride (1:1), mixt.  
 with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone  
 MF C28 H27 N O4 S . C23 H17 N4 . Cl  
 CI MXS

CM 1



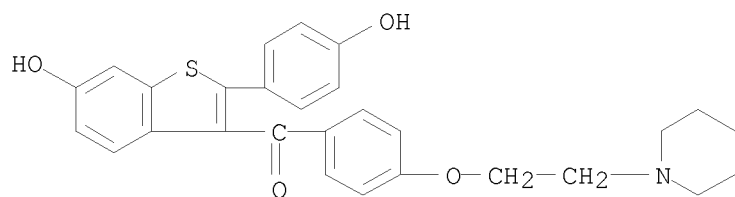
CM 2



● Cl<sup>-</sup>

L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanedioic acid, compd. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone (1:1)  
 MF C28 H27 N O4 S . C3 H4 O4

CM 1

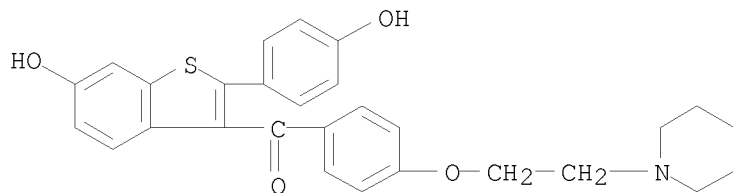


CM 2



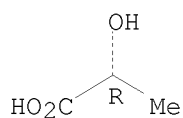
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanoic acid, 2-hydroxy-, (2R)-, compd. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone (1:1) (9CI)  
 MF C28 H27 N O4 S . C3 H6 O3

CM 1



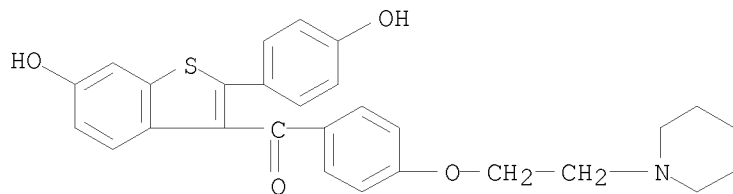
CM 2

Absolute stereochemistry.



L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]-, compd. with 1,2-dichloroethane, hydrochloride (1:1:1)  
MF C28 H27 N O4 S . C2 H4 Cl2 . Cl H

CM 1

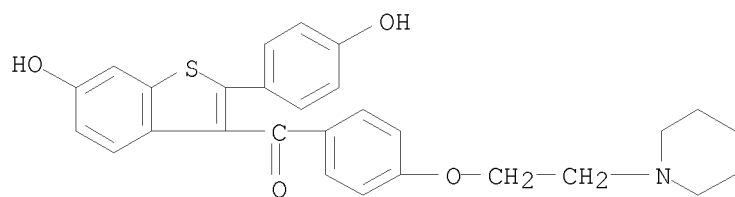


CM 2

Cl-CH2-CH2-Cl

L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Rapamycin, mixt. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone  
MF C51 H79 N O13 . C28 H27 N O4 S  
CI MXS

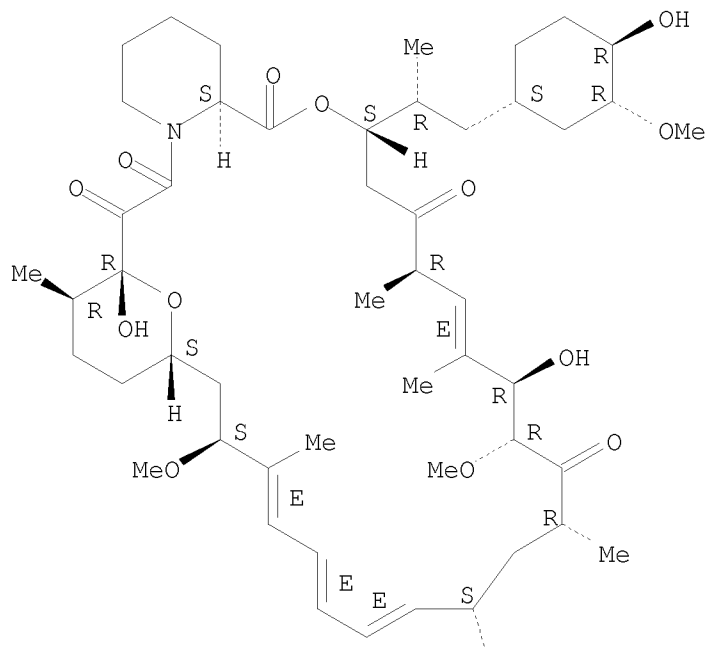
CM 1



CM 2

Absolute stereochemistry.  
Double bond geometry as shown.

PAGE 1-A



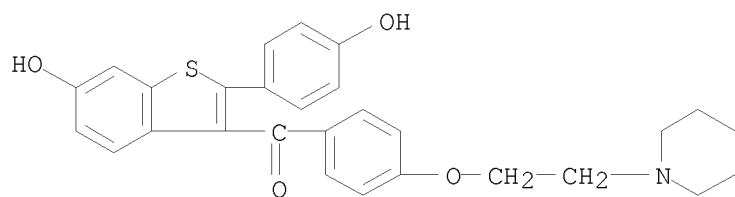
PAGE 2-A



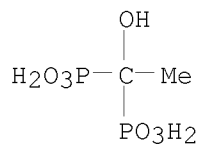
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Phosphonic acid, (1-hydroxyethylidene)bis-, compd. with  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone (1:2), pentahydrate (9CI)  
MF C28 H27 N O4 S . 1/2 C2 H8 O7 P2 . 5/2 H2 O

CM 1



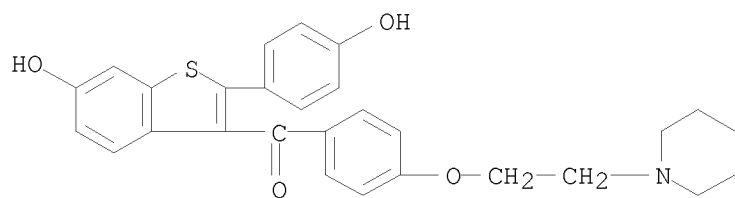


CM 2



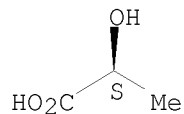
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanoic acid, 2-hydroxy-, (2S)-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone, hydrate (2:2:1)  
 MF C28 H27 N O4 S . C3 H6 O3 . 1/2 H2 O

CM 1



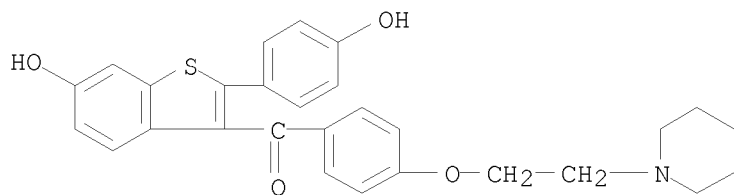
CM 2

Absolute stereochemistry. Rotation (+).

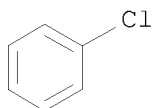


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]-, compd. with chlorobenzene, hydrochloride  
 (1:1:1)  
 MF C28 H27 N O4 S . C6 H5 Cl . Cl H

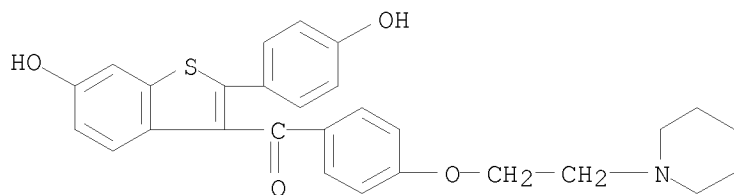
CM 1



CM 2



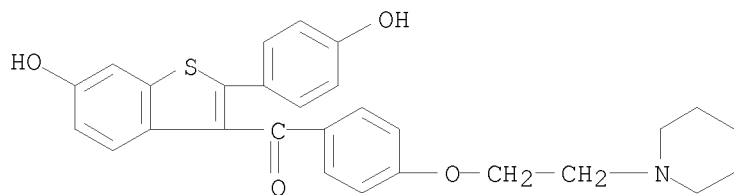
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]-  
 MF C28 H27 N O4 S  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

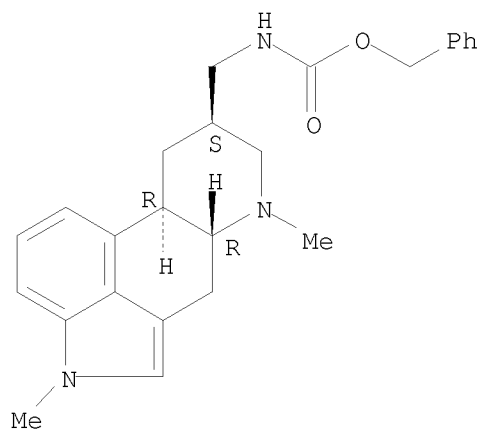
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Carbamic acid, [[[8β)-1,6-dimethylergolin-8-yl]methyl]-, phenylmethyl ester, mixt. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone (9CI)  
 MF C28 H27 N O4 S . C25 H29 N3 O2  
 CI MXS

CM 1



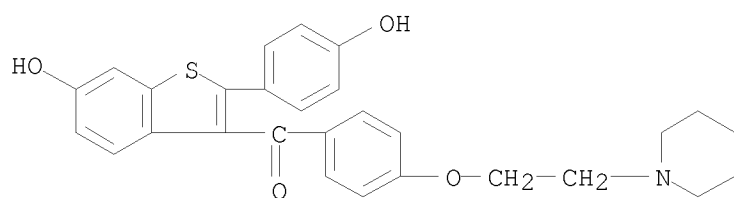
CM 2

Absolute stereochemistry.

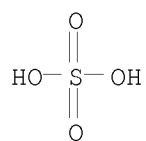


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]-, compd. with 2-propanol, sulfate (1:1:1)  
 MF C28 H27 N O4 S . C3 H8 O . H2 O4 S

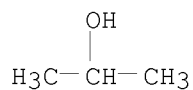
CM 1



CM 2



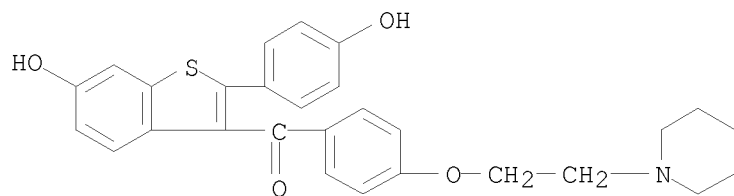
CM 3



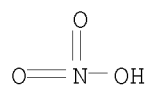
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]-, compd. with 2-propanol, sulfate (1:1:1)

piperidinyl)ethoxy]phenyl]-, nitrate (1:1)  
 MF C28 H27 N O4 S . H N O3

CM 1

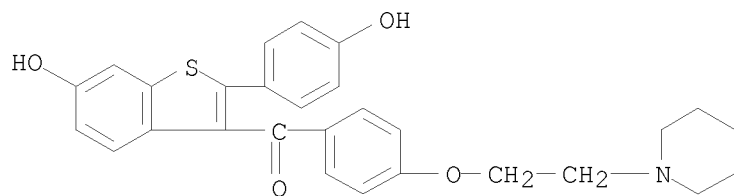


CM 2

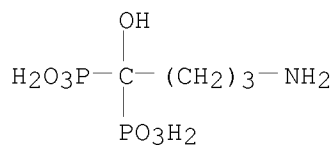


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Phosphonic acid, (4-amino-1-hydroxybutylidene)bis-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone (1:1) (9CI)  
 MF C28 H27 N O4 S . C4 H13 N O7 P2

CM 1



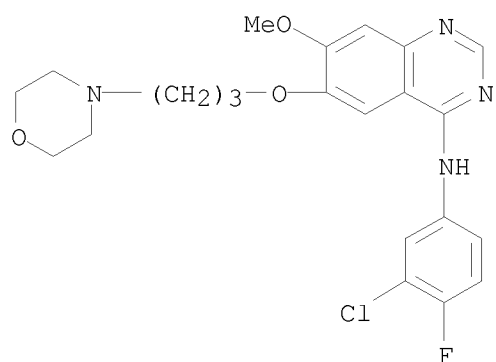
CM 2



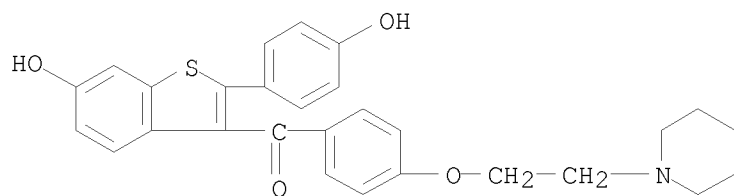
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]-, mixt. with  
 N-(3-chloro-4-fluorophenyl)-7-methoxy-6-[3-(4-morpholinyl)propoxy]-4-  
 quinazolinamine  
 MF C28 H27 N O4 S . C22 H24 Cl F N4 O3

CI MXS

CM 1

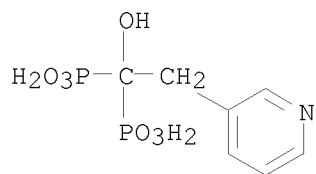


CM 2

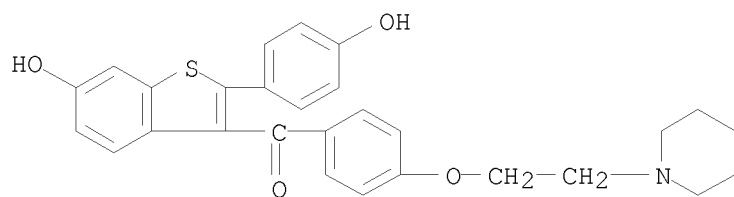


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Phosphonic acid, [1-hydroxy-2-(3-pyridinyl)ethylidene]bis-, compd. with  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone (1:1), trihydrate (9CI)  
MF C28 H27 N O4 S . C7 H11 N O7 P2 . 3 H2 O

CM 1

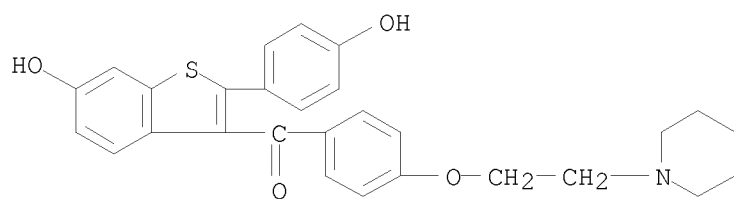


CM 2



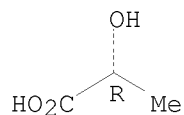
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanoic acid, 2-hydroxy-, (2R)-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1) (9CI)  
 MF C28 H27 N O4 S . C3 H6 O3 . 1/4 H2 O

CM 1



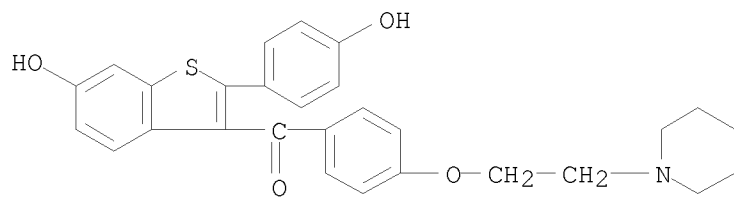
CM 2

Absolute stereochemistry.



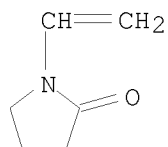
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone (1:3) (9CI)  
 MF C28 H27 N O4 S . 1/3 (C6 H9 N O)x

CM 1

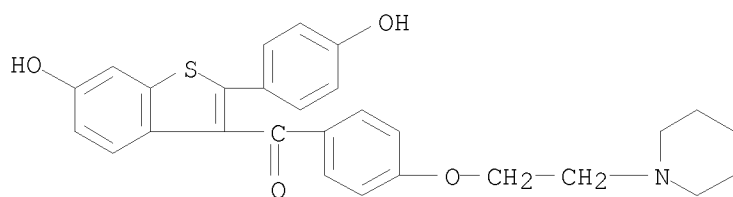


CM 2

CM 3



L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]-, hydrochloride (1:1)  
MF C28 H27 N O4 S . Cl H  
CI COM

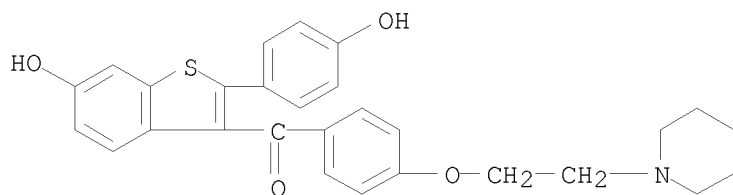


● HCl

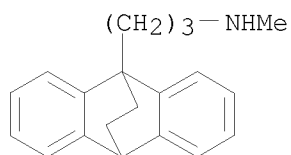
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]-, mixt. with  
N-methyl-9,10-ethanoanthracene-9(10H)-propanamine (9CI)  
MF C28 H27 N O4 S . C20 H23 N  
CI MXS

CM 1

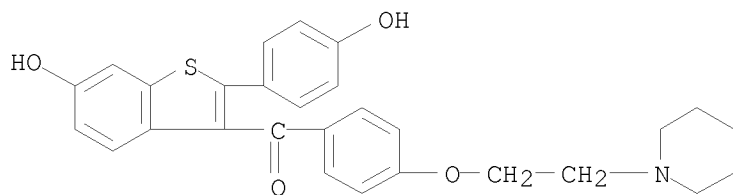


CM 2

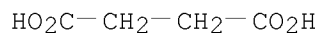


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Butanedioic acid, compd. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone (1:1)  
 MF C28 H27 N O4 S . C4 H6 O4

CM 1

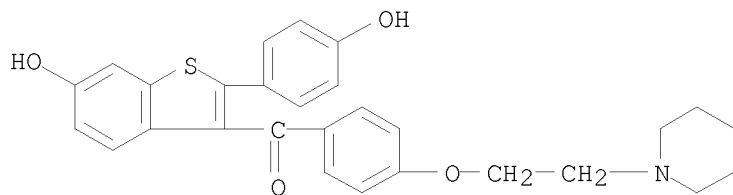


CM 2



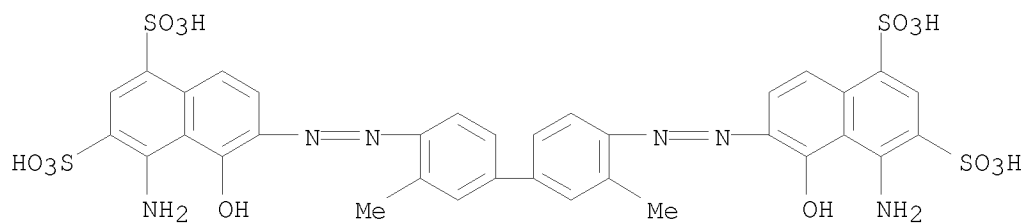
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 1,3-Naphthalenedisulfonic acid, 6,6'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[4-amino-5-hydroxy-, compd. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone (1:2) (9CI)  
 MF C34 H28 N6 O14 S4 . 2 C28 H27 N O4 S

CM 1

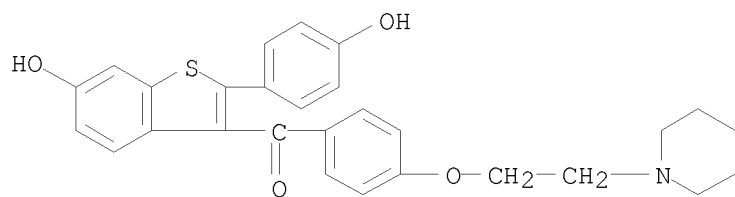


CM 2



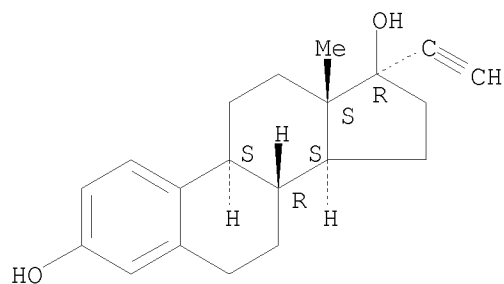


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 19-Norpregna-1,3,5(10)-trien-20-yne-3,17-diol, (17 $\alpha$ )-, mixt. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone (9CI)  
 MF C28 H27 N O4 S . C20 H24 O2  
 CI MXS  
 CM 1

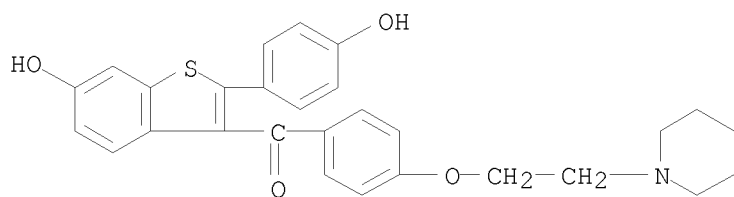


CM 2

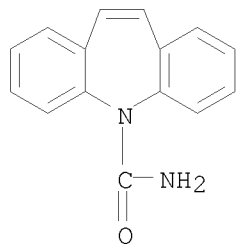
Absolute stereochemistry.



L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN 5H-Dibenz[b,f]azepine-5-carboxamide, mixt. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone  
 MF C28 H27 N O4 S . C15 H12 N2 O  
 CI MXS  
 CM 1

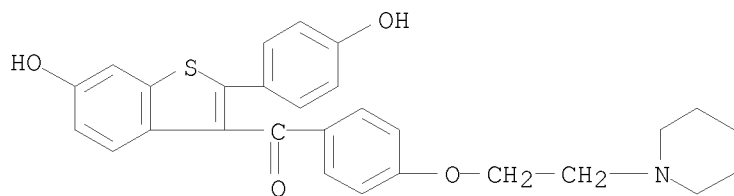


CM 2

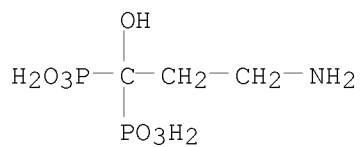


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Phosphonic acid, (3-amino-1-hydroxypropylidene)bis-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone (1:1), trihydrate (9CI)  
 MF C28 H27 N O4 S . C3 H11 N O7 P2 . 3 H2 O

CM 1

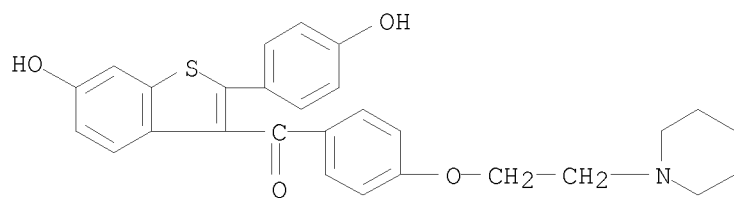


CM 2



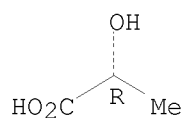
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanoic acid, 2-hydroxy-, (2R)-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone, hydrate (2:2:1) (9CI)  
 MF C28 H27 N O4 S . C3 H6 O3 . 1/2 H2 O

CM 1



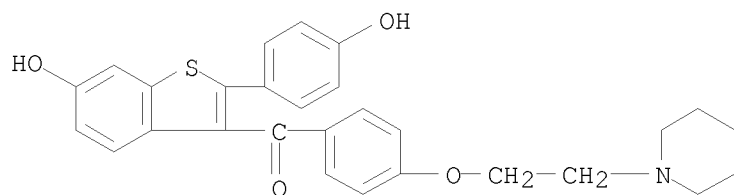
CM 2

Absolute stereochemistry.



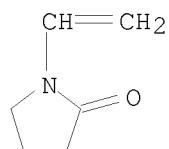
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 2-Pyrrolidinone, 1-ethenyl-, homopolymer, compd. with  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone (1:9) (9CI)  
MF C28 H27 N O4 S . 1/9 (C6 H9 N O)<sub>x</sub>

CM 1



CM 2

CM 3

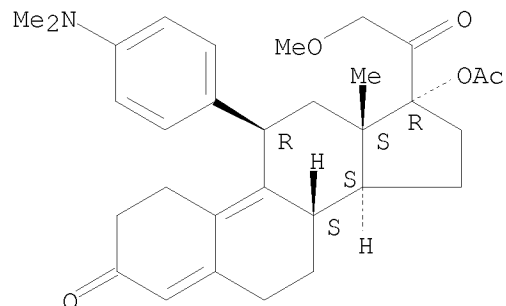


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN 19-Norpregna-4,9-diene-3,20-dione,  
17-(acetyloxy)-11-[4-(dimethylamino)phenyl]-21-methoxy-, (11β)-,  
mixt. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone

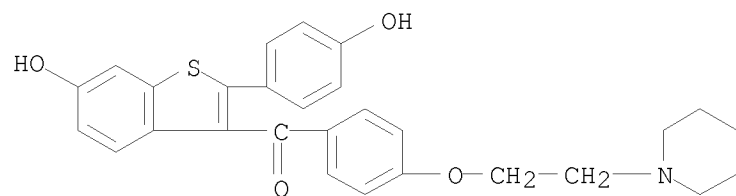
MF C31 H39 N O5 . C28 H27 N O4 S  
CI MXS

CM 1

Absolute stereochemistry.

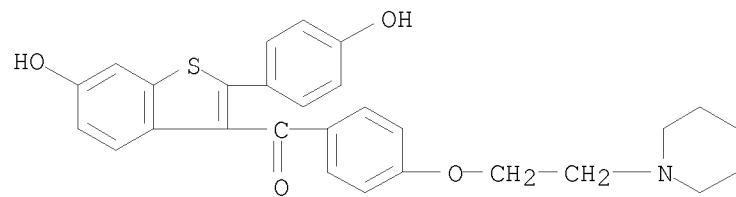


CM 2

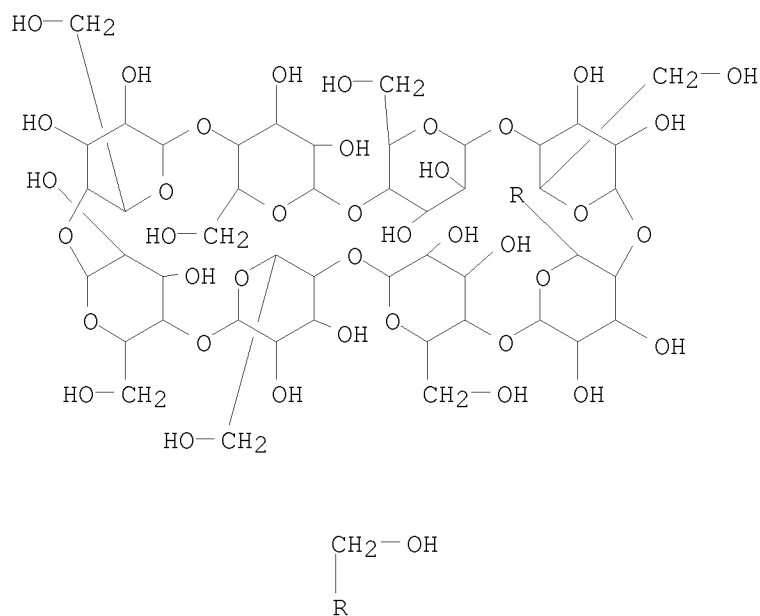


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
IN  $\gamma$ -Cyclodextrin, compd. with [6-hydroxy-2-(4-  
hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone (9CI)  
MF C48 H80 O40 . x C28 H27 N O4 S

CM 1

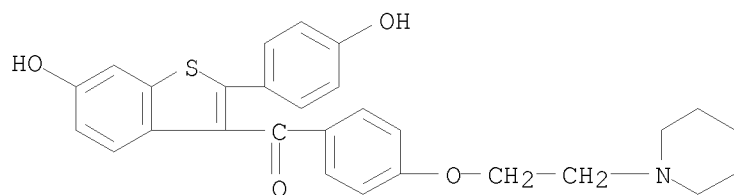


CM 2

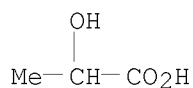


L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Propanoic acid, 2-hydroxy-, compd. with  
 [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1)  
 MF C28 H27 N O4 S . C3 H6 O3 . 1/4 H2 O

CM 1



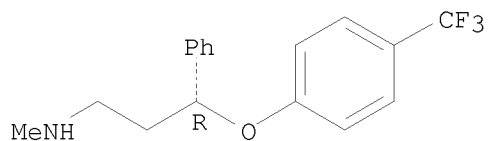
CM 2



L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Methanone, [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
 piperidinyl)ethoxy]phenyl]-, hydrochloride, mixt. with  
 (γR)-N-methyl-γ-[4-(trifluoromethyl)phenoxy]benzenepropanamine  
 hydrochloride (9CI)  
 MF C28 H27 N O4 S . C17 H18 F3 N O . 2 Cl H  
 CI MXS

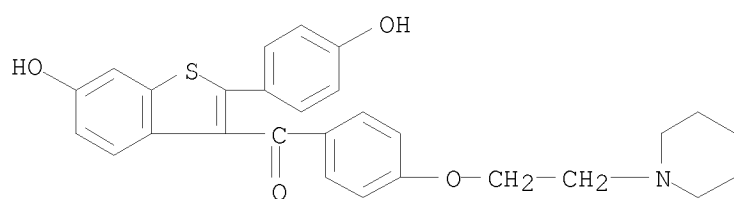
CM 1

Absolute stereochemistry.



● HCl

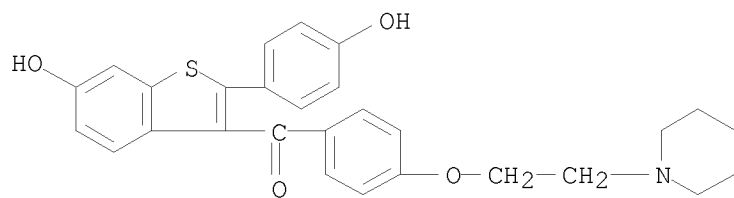
CM 2



● HCl

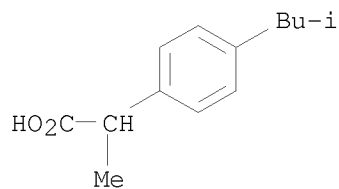
L3 49 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN  
 IN Benzeneacetic acid,  $\alpha$ -methyl-4-(2-methylpropyl)-, mixt. with  
 6-chloro-3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide,  
 monohydrochloride and [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-  
 [2-(1-piperidinyl)ethoxy]phenyl]methanone hydrochloride (9CI)  
 MF C28 H27 N O4 S . C13 H18 O2 . C7 H8 Cl N3 O4 S2 . 2 Cl H  
 CI MXS

CM 1

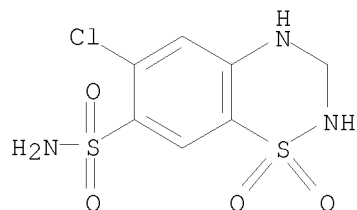


● HCl

CM 2



CM 3



● HCl

ALL ANSWERS HAVE BEEN SCANNED

=> fil stng

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

73.33

81.43

FILE 'STNGUIDE' ENTERED AT 17:13:31 ON 05 JAN 2009

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Dec 19, 2008 (20081219/UP).

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.07

81.50

FILE 'REGISTRY' ENTERED AT 17:14:08 ON 05 JAN 2009

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 JAN 2009 HIGHEST RN 1092523-63-1

DICTIONARY FILE UPDATES: 4 JAN 2009 HIGHEST RN 1092523-63-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

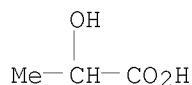
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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=> s lactic acid/cn
L4          1 LACTIC ACID/CN
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=> d
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L4  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2009 ACS on STN
RN  50-21-5  REGISTRY
ED  Entered STN:  16 Nov 1984
CN  Propanoic acid, 2-hydroxy-  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN  Lactic acid (7CI, 8CI)
OTHER NAMES:
CN  (±)-Lactic acid
CN  α-Hydroxypropanoic acid
CN  α-Hydroxypropionic acid
CN  2-Hydroxy-2-methylacetic acid
CN  2-Hydroxypropanoic acid
CN  2-Hydroxypropionic acid
CN  Biolac
CN  Chem-Cast
CN  DL-Lactic acid
CN  dl-Lactic acid
CN  E 270
CN  HiPure 88
CN  Lurex
CN  Milk acid
CN  NSC 367919
CN  Purac FCC 80
CN  Purac FCC 88
CN  Tonsillosan
AR  849585-22-4
DR  152-36-3, 598-82-3
MF  C3 H6 O3
CI  COM
LC  STN Files:  ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO,
    CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN,
    CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2,
    ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB,
    IMSRESEARCH, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PATDPASPC, PIRA,
    PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USAN, USPAT2,
    USPATFULL, VETU
    (*File contains numerically searchable property data)
Other Sources:  DSL**, EINECS**, TSCA**
    (**Enter CHEMLIST File for up-to-date regulatory information)
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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

63038 REFERENCES IN FILE CA (1907 TO DATE)  
2564 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
63139 REFERENCES IN FILE CAPLUS (1907 TO DATE)

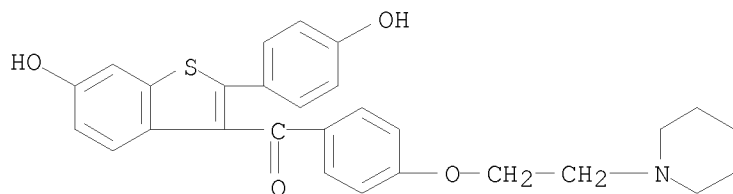
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L5 3 L3 AND C28 H27 N O4 S . C3 H6 O3 . 1/4 H2 O/MF

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L5 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 676636-05-8 REGISTRY  
ED Entered STN: 26 Apr 2004  
CN Propanoic acid, 2-hydroxy-, compd. with  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1) (CA INDEX NAME)  
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SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

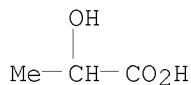
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CRN 84449-90-1  
CMF C28 H27 N O4 S



CM 2

CRN 50-21-5  
CMF C3 H6 O3



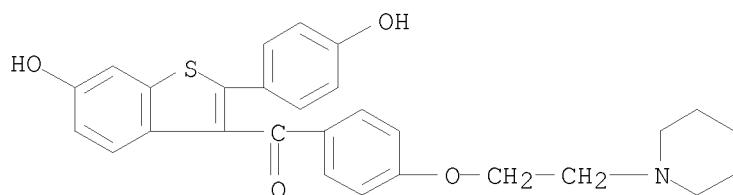
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 676635-97-5 REGISTRY  
ED Entered STN: 26 Apr 2004  
CN Propanoic acid, 2-hydroxy-, (2S)-, compd. with  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1) (CA INDEX NAME)  
OTHER CA INDEX NAMES:

CN Propanoic acid, 2-hydroxy-, (2S)-, compd. with  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1) (9CI)  
FS STEREOSEARCH  
MF C28 H27 N O4 S . C3 H6 O3 . 1/4 H2 O  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

CM 1

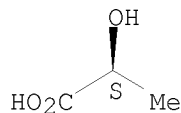
CRN 84449-90-1  
CMF C28 H27 N O4 S



CM 2

CRN 79-33-4  
CMF C3 H6 O3

Absolute stereochemistry. Rotation (+).

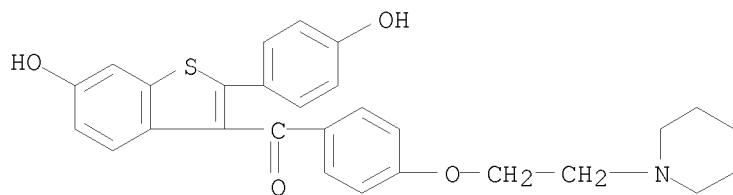


1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L5 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 676635-86-2 REGISTRY  
ED Entered STN: 26 Apr 2004  
CN Propanoic acid, 2-hydroxy-, (2R)-, compd. with  
[6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-  
piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1) (9CI) (CA INDEX  
NAME)  
FS STEREOSEARCH  
MF C28 H27 N O4 S . C3 H6 O3 . 1/4 H2 O  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

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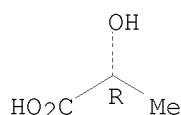


CM 2

CRN 10326-41-7

CMF C3 H6 O3

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

19.86

101.36

FILE 'CAPLUS' ENTERED AT 17:15:09 ON 05 JAN 2009

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FILE COVERS 1907 - 5 Jan 2009 VOL 150 ISS 2

FILE LAST UPDATED: 4 Jan 2009 (20090104/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s 15

L6

1 L5

=> d bib abs hitstr

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2004:292022 CAPLUS  
DN 140:309411  
TI Pharmaceutical compositions comprising raloxifene acid addition salts  
and/or solvates  
IN Karup, Gunnar Leo; Pedersen, Soren Bols  
PA A/S Gea Farmaceutisk Fabrik, Den.  
SO PCT Int. Appl., 64 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004029046	A2	20040408	WO 2003-DK645	20030930
	WO 2004029046	A3	20041014		
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	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2499819	A1	20040408	CA 2003-2499819	20030930
	AU 2003266940	A1	20040419	AU 2003-266940	20030930
	AU 2003266940	B2	20070208		
	AU 2003266940	B9	20080110		
	EP 1546138	A2	20050629	EP 2003-747847	20030930
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	EP 1826205	A1	20070829	EP 2007-108497	20030930
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	EP 1832582	A1	20070912	EP 2007-108496	20030930
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR			
	EP 1832583	A1	20070912	EP 2007-108498	20030930
	R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR			
	NO 2005002100	A	20050629	NO 2005-2100	20050429
	US 20060154966	A1	20060713	US 2005-528691	20050921
PRAI	DK 2002-1450	A	20020930		
	EP 2003-747847	A3	20030930		
	WO 2003-DK645	W	20030930		

OS MARPAT 140:309411

AB Raloxifene acid addition salts or solvates thereof, having improved dissoln. properties in media comprising hydrochloric acid are described, compared with similar prepns. based on raloxifene or raloxifene-hydrochloride. The disclosed acid addition salts or solvates thereof show an improved bioavailability in media comprising hydrochloric acid, such as the gastric juice. The acid addition salts or solvates thereof are addition salts or solvates of raloxifene and a pharmaceutically acceptable acid selected among succinic acid, lactic acid, malonic acid or sulfuric acid. Further, crystalline forms of the raloxifene salts and solvates thereof are disclosed. The raloxifene acid addition salts and/or solvates thereof are useful for the

preparation of pharmaceutical composition for oral administration capable of fast

and reliable release of the active ingredients in the stomach of the patient, in particular for the treatment of cancer or osteoporosis, or for inhibiting cartilage degradation. A new method for preparation of raloxifene lactate is also disclosed. Thus, raloxifene malonate was prepared by the reaction of raloxifene-HCl with malonic acid in propanol-water solution. The product was characterized by IR spectra and x-ray diffraction.

IT 676635-97-5P

RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(pharmaceutical compns. comprising raloxifene acid addition salts and/or solvates)

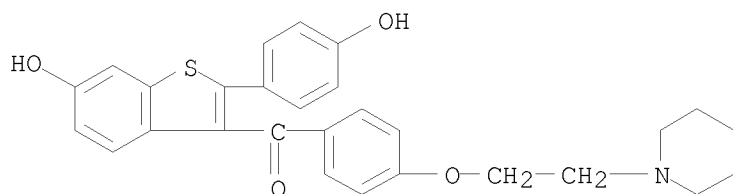
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CN Propanoic acid, 2-hydroxy-, (2S)-, compd. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1) (CA INDEX NAME)

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CRN 84449-90-1

CMF C28 H27 N O4 S

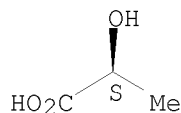


CM 2

CRN 79-33-4

CMF C3 H6 O3

Absolute stereochemistry. Rotation (+).



IT 676635-86-2 676636-05-8

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmaceutical compns. comprising raloxifene acid addition salts and/or solvates)

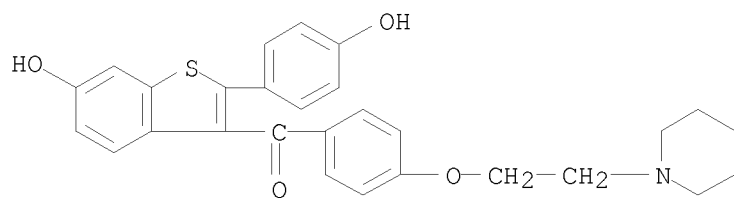
RN 676635-86-2 CAPLUS

CN Propanoic acid, 2-hydroxy-, (2R)-, compd. with [6-hydroxy-2-(4-hydroxyphenyl)benzo[b]thien-3-yl][4-[2-(1-piperidinyl)ethoxy]phenyl]methanone, hydrate (4:4:1) (9CI) (CA INDEX NAME)

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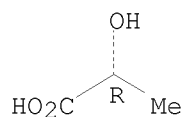


CM 2

CRN 10326-41-7

CMF C3 H6 O3

Absolute stereochemistry.



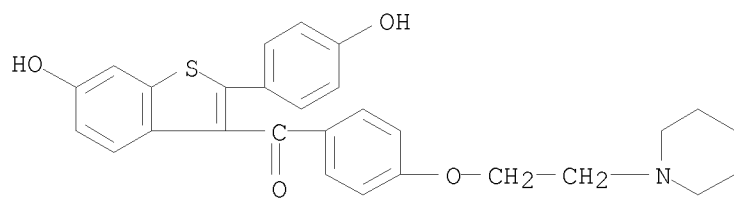
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CN Propanoic acid, 2-hydroxy-, compd. with  
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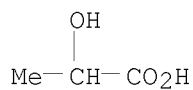
CMF C28 H27 N O4 S



CM 2

CRN 50-21-5

CMF C3 H6 O3



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

